

Name: \_\_\_\_\_ ID: \_\_\_\_\_

1. Name two (2) methods of collision resolution which differ in the data structure they use. Describe one (1) of these.

**chaining, linear probing**

**chaining involves adding all elements that hash to the same slot in a linked list**

2. Name two (2) types of hash functions. Describe one (1) of these.

**division method, multiplication method**

**in the division method, the hash function is**  
$$h(k) = k \bmod m,$$
**where  $k$  is the key,**  
**and  $m$  is the number of slots in the hash table.**